



DRESSER-RAND®

Bringing energy and the environment into harmony.®

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The Private Securities Litigation Reform Act of 1995 provides a “safe harbor” for certain forward-looking statements so long as such information is identified as forward-looking and is accompanied by meaningful cautionary statements identifying important factors that could cause actual results to differ materially from those projected in the information.

The use of words such as “may”, “might”, “will”, “should”, “expect”, “plan”, “outlook”, “anticipate”, “believe”, “estimate”, “appear”, “project”, “intend”, “future”, “potential” or “continue”, and other similar expressions are intended to identify forward-looking statements.

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LNG Safety



- LNG is safer than Propane
- A pressurized tank of LNG will **NOT** explode
- LNG will not ignite or burn, the mixture is too rich
- LNG vapor will only ignite in concentrations between 5 to 15%
- If there is an LNG leak, control the vapor cloud with a water wall to direct the vapor cloud away from any ignition source
- **DO NOT** put water directly on or into an LNG leak

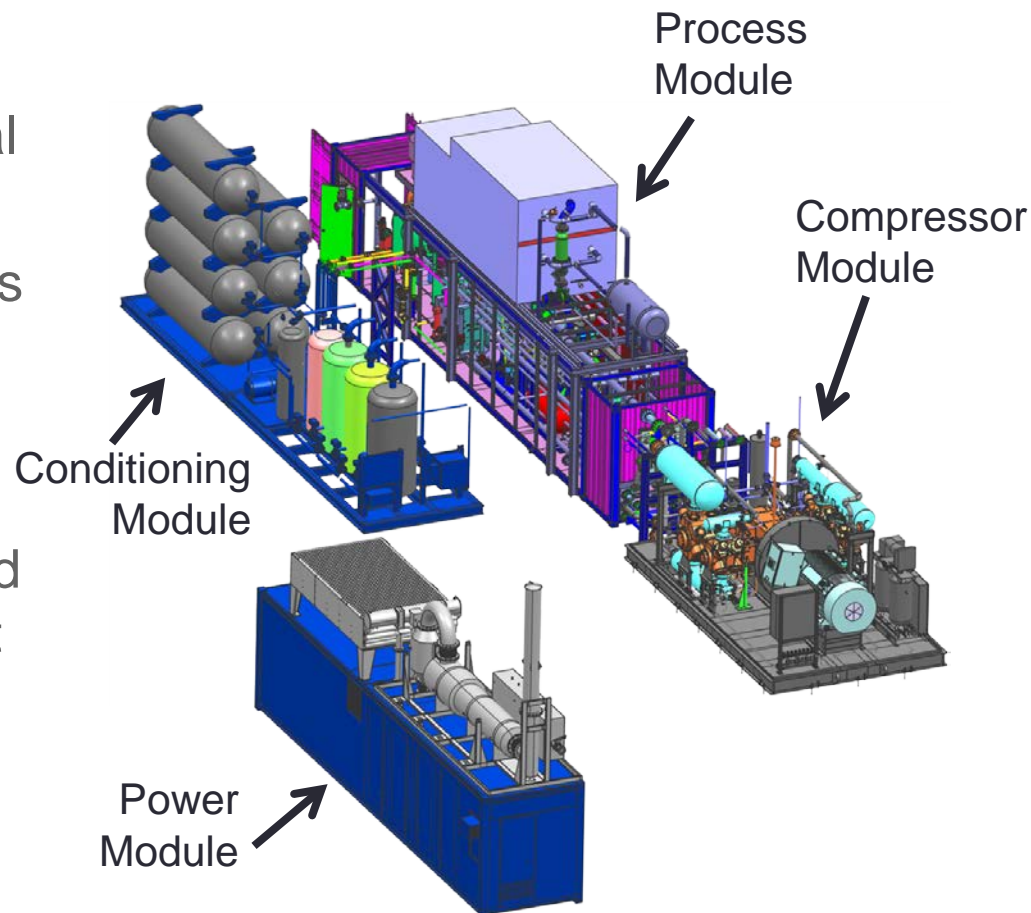
LNGoTM SYSTEM OVERVIEW

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LNGo™ System Overview

- Modular and portable natural gas liquefaction plant is:
 - Comprised of four modules
 - Capable of producing 6,000 gallons of LNG per day
 - Designed for over-the-road shipment to be installed at the natural gas source



**CONFIGURATION
FOR MARKETS WITH
PIPELINE QUALITY
GAS INPUT AT 35
PSIG SHOWN**

Process consumes:
~3.12 kW-h/gal
(~1.95 kW-h/kg) LNG

CONDITIONING MODULE—

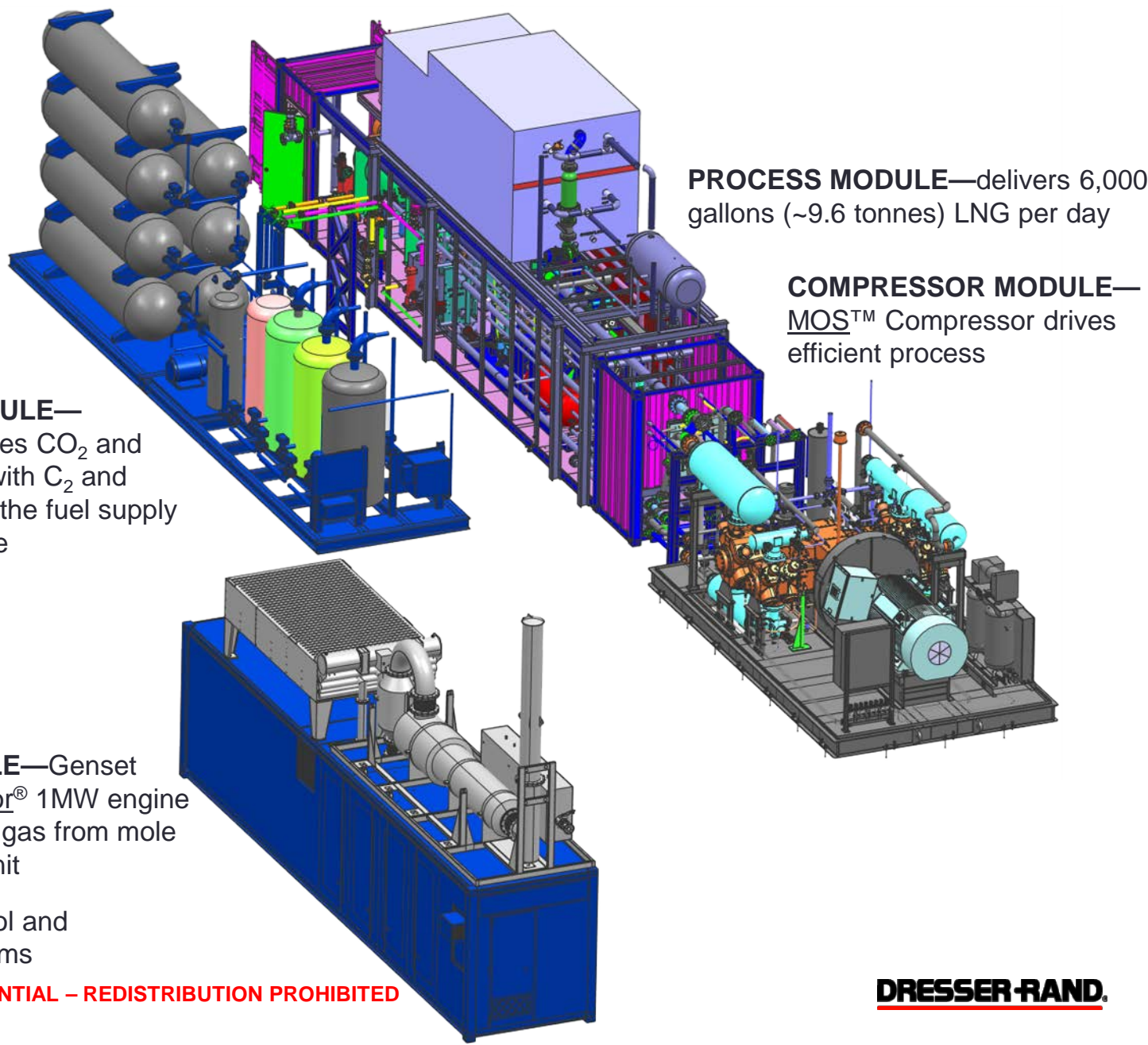
Molecular sieve removes CO₂ and H₂O. The purge flow, with C₂ and above, is blended into the fuel supply to the Guascor[®] engine

POWER MODULE—Genset driven by Guascor[®] 1MW engine consumes purge gas from mole sieve to power unit

Enginuity[®] Control and Monitoring Systems

PROCESS MODULE—delivers 6,000 gallons (~9.6 tonnes) LNG per day

COMPRESSOR MODULE—
MOS[™] Compressor drives efficient process



Product Specifications

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LNGoTM Product Specifications

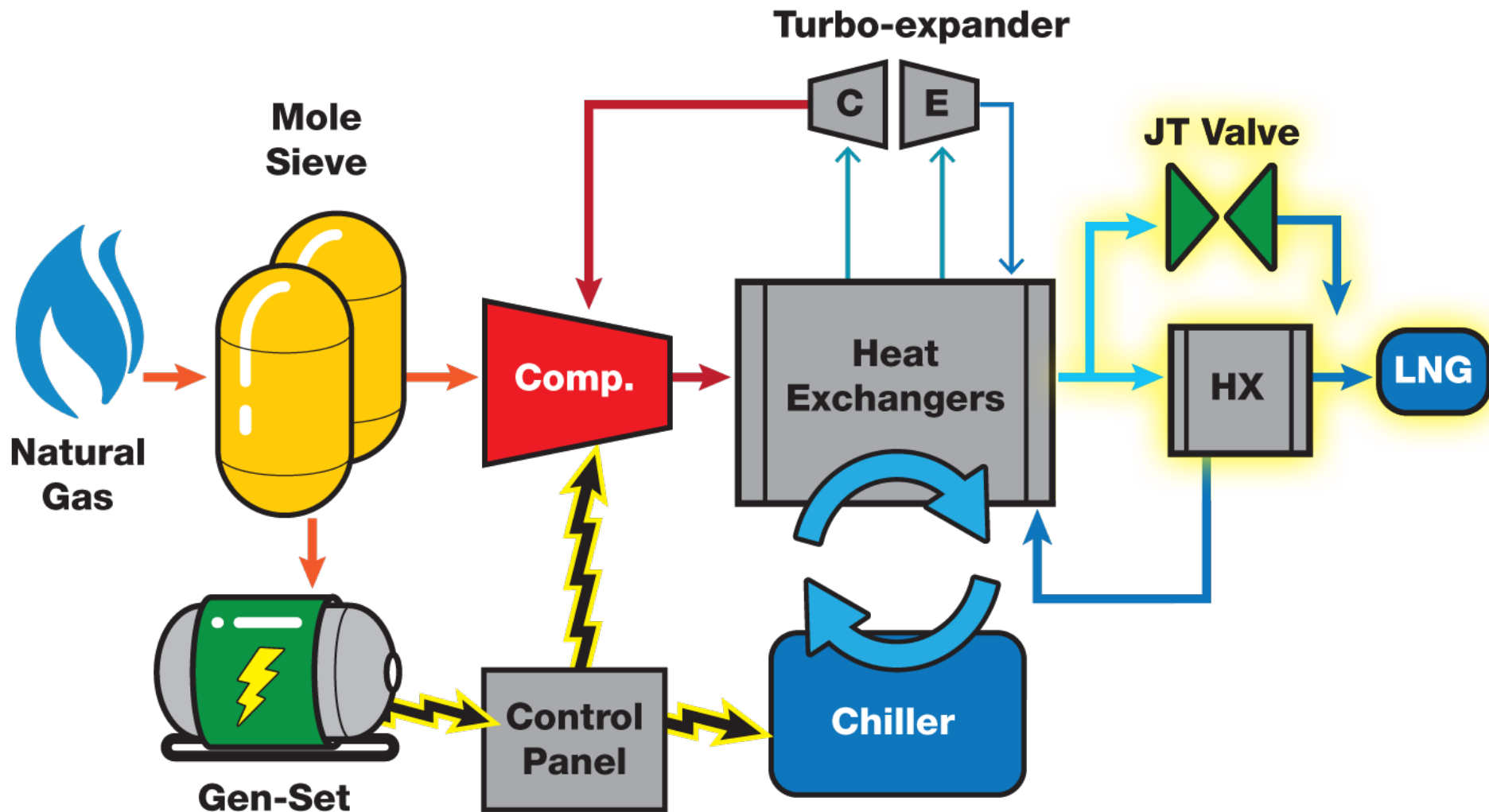
- Meets NEC Class 1, Division 2, Group D, T2A for areas certified as hazardous
- Ambient Rating: -40°F to 110°F
- Module Assembled Footprint: 110' x 50' x 14' (h)
- **Input Natural Gas:**
 - 707 MSCFD (Thousand Standard Cubic Feet per Day)
 - Nominal inlet condition 35 psig, 60°F
- **Output LNG:**
 - 6000 gallons per day (GPD)
 - 10-85 psig
 - -252°F

LNGoTM Process

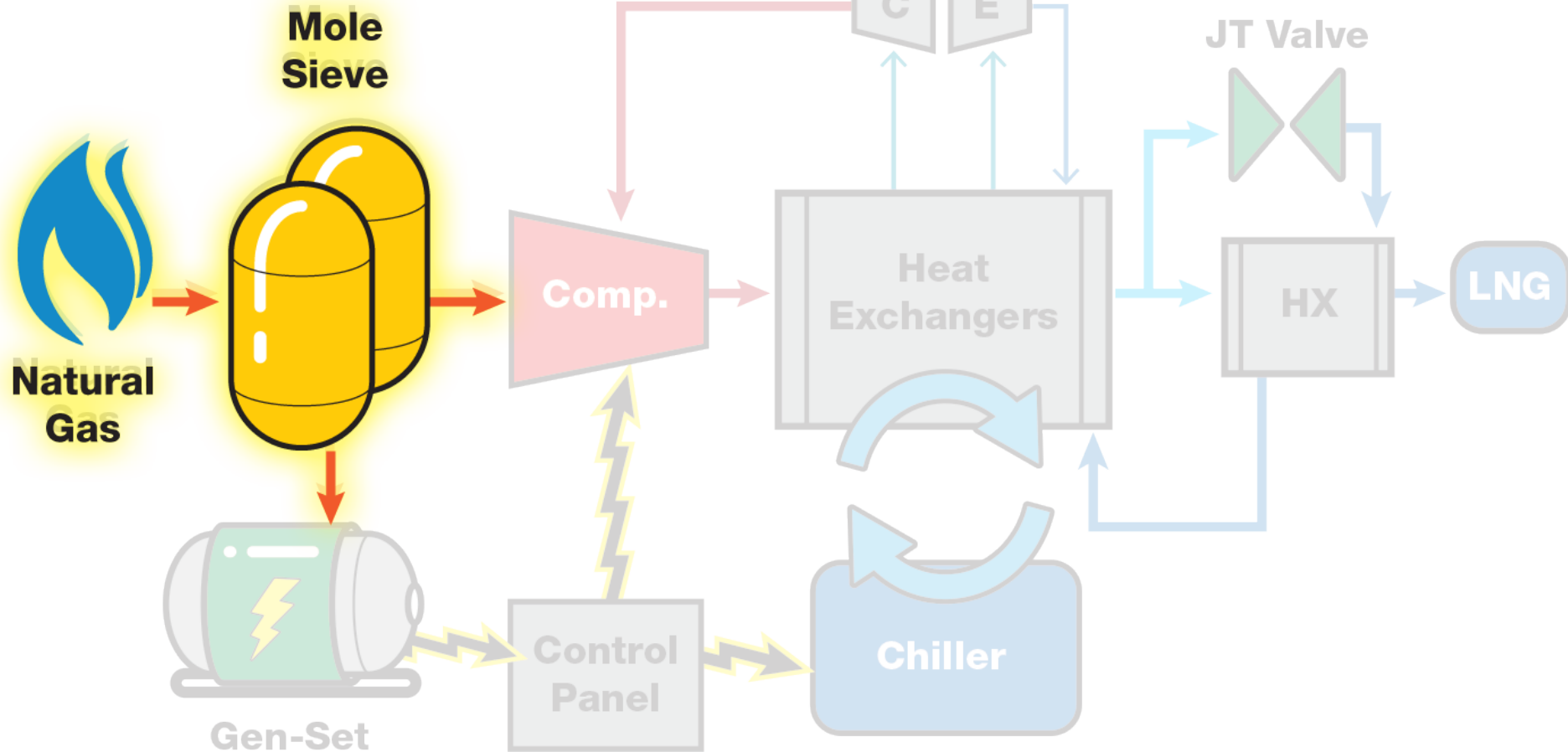
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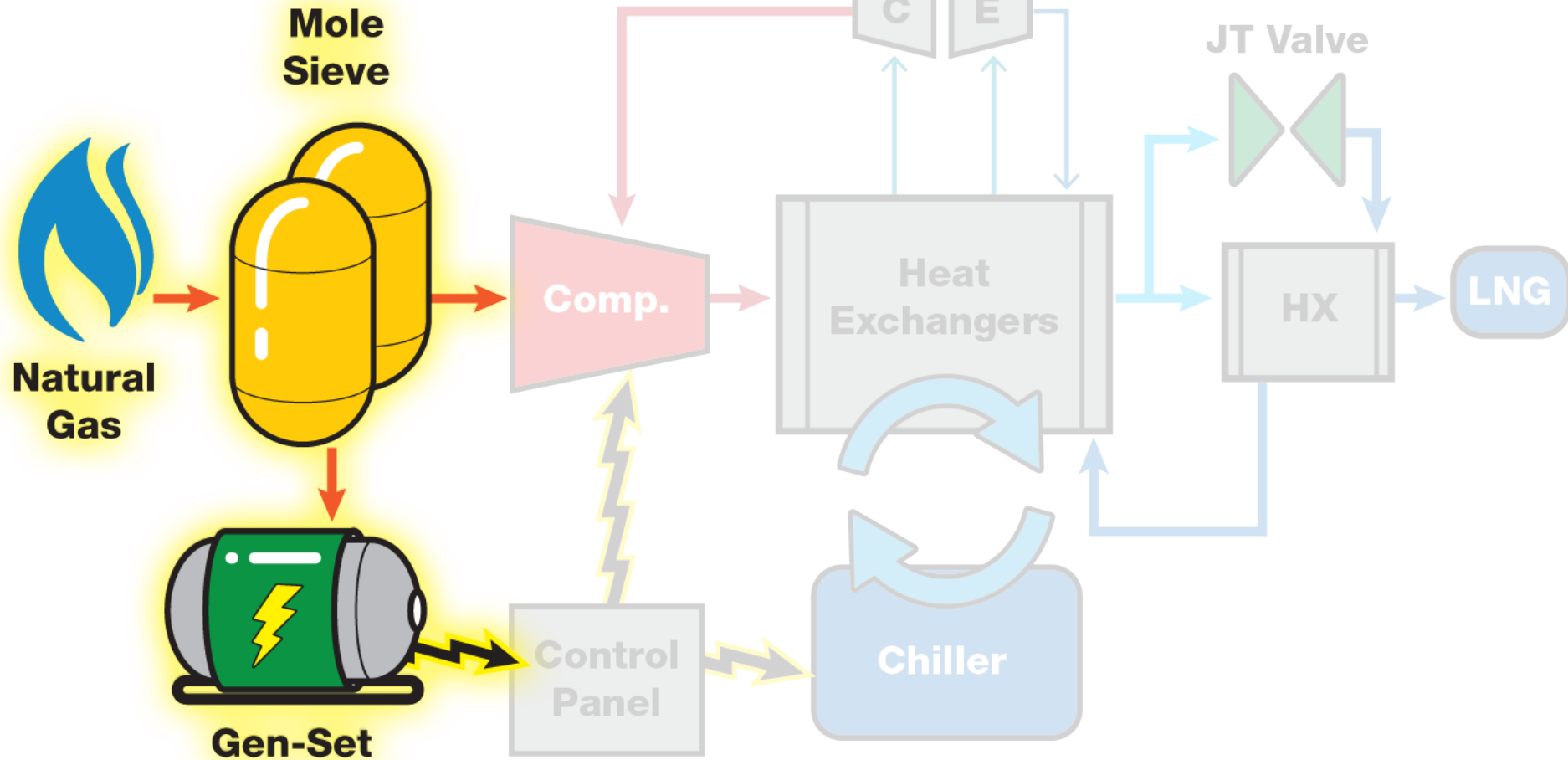
LNGoTM Process

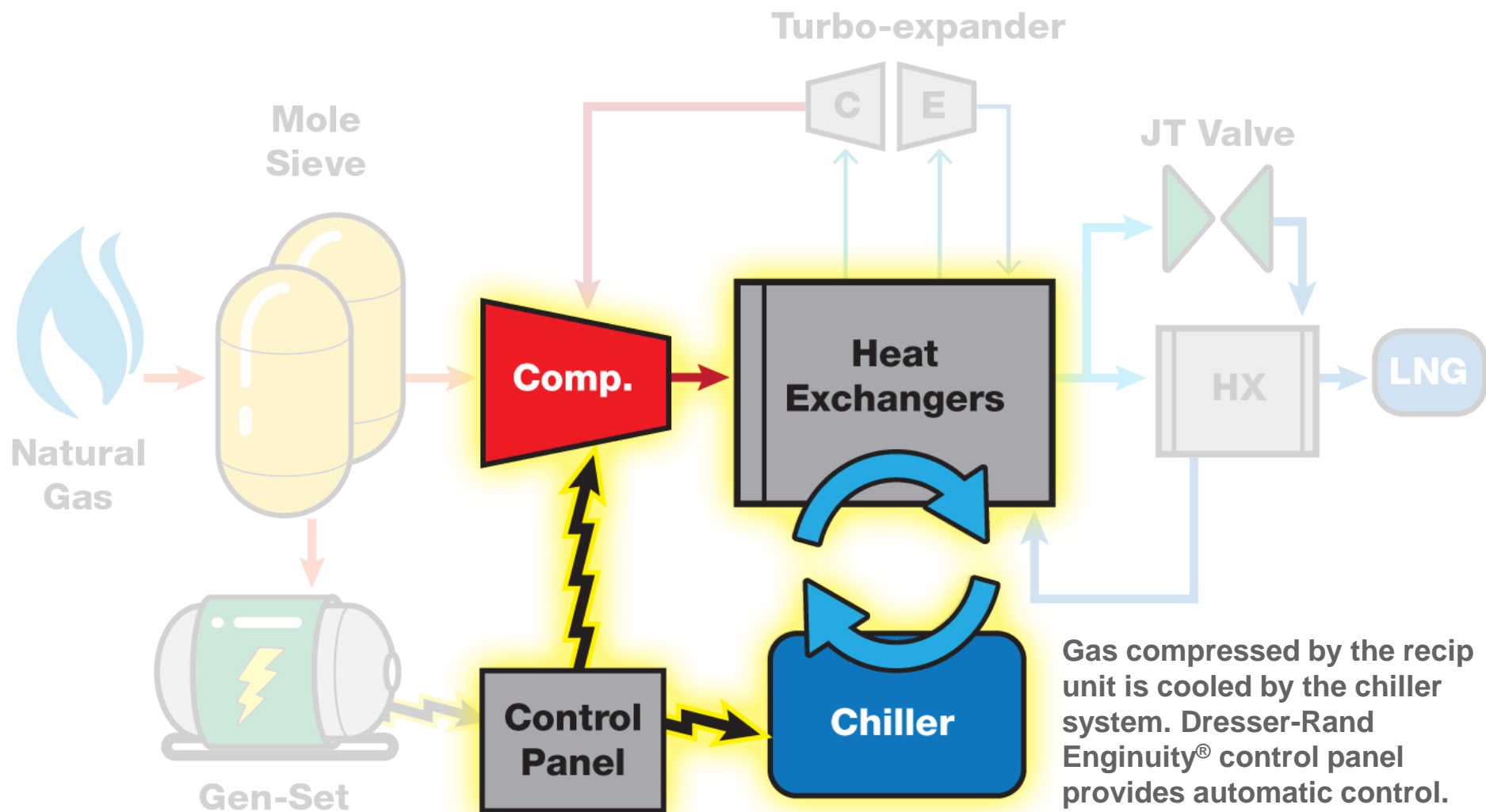


Pipeline gas enters the system, directed to mole sieve and the compressor for CO₂ and H₂O removal.

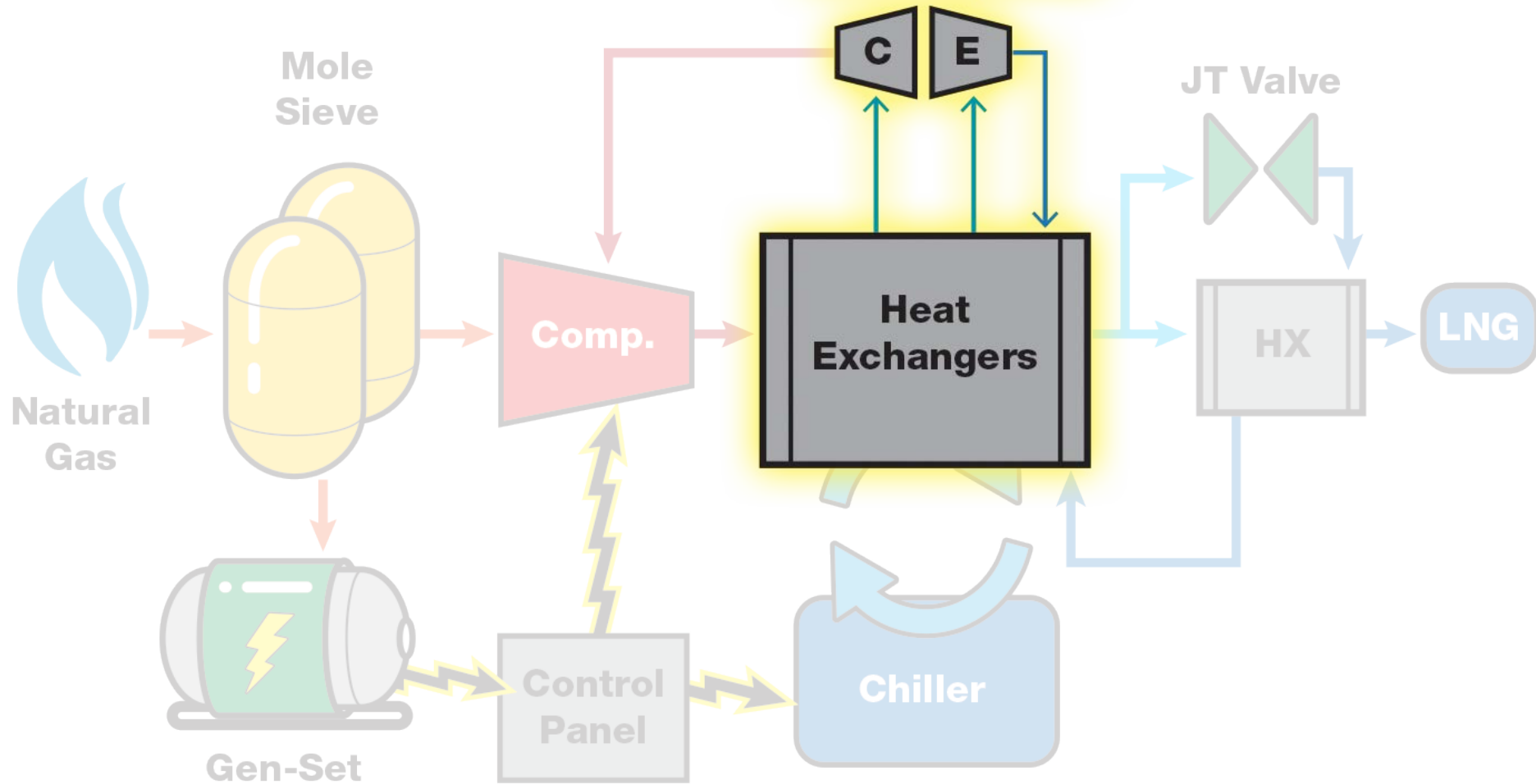


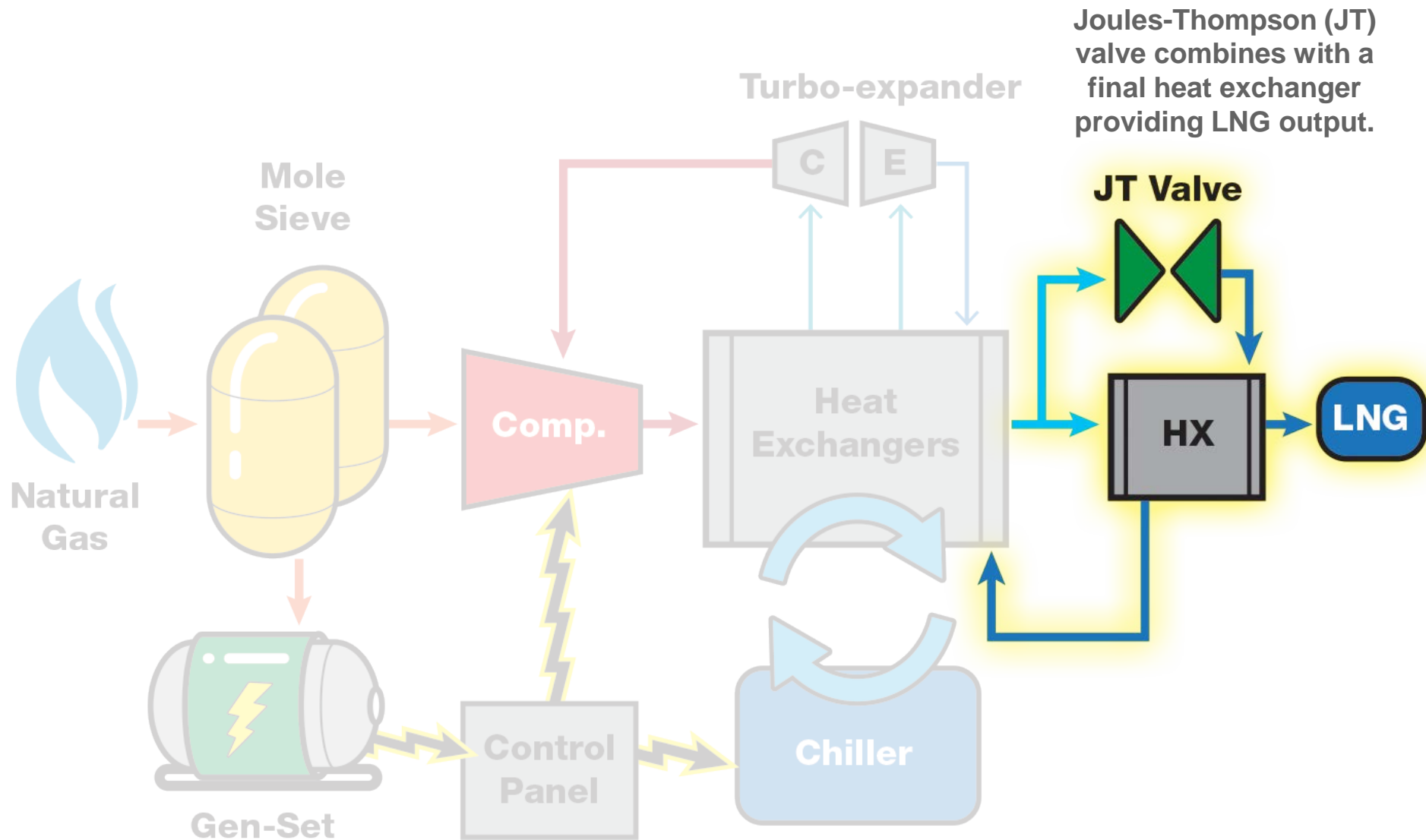
Mole sieve waste gas is blended with pipeline gas to fuel the engine/generator.





Turbo-expander cools the CNG.
Patented heat exchanger
arrangement maximizes cooling.





System Configuration

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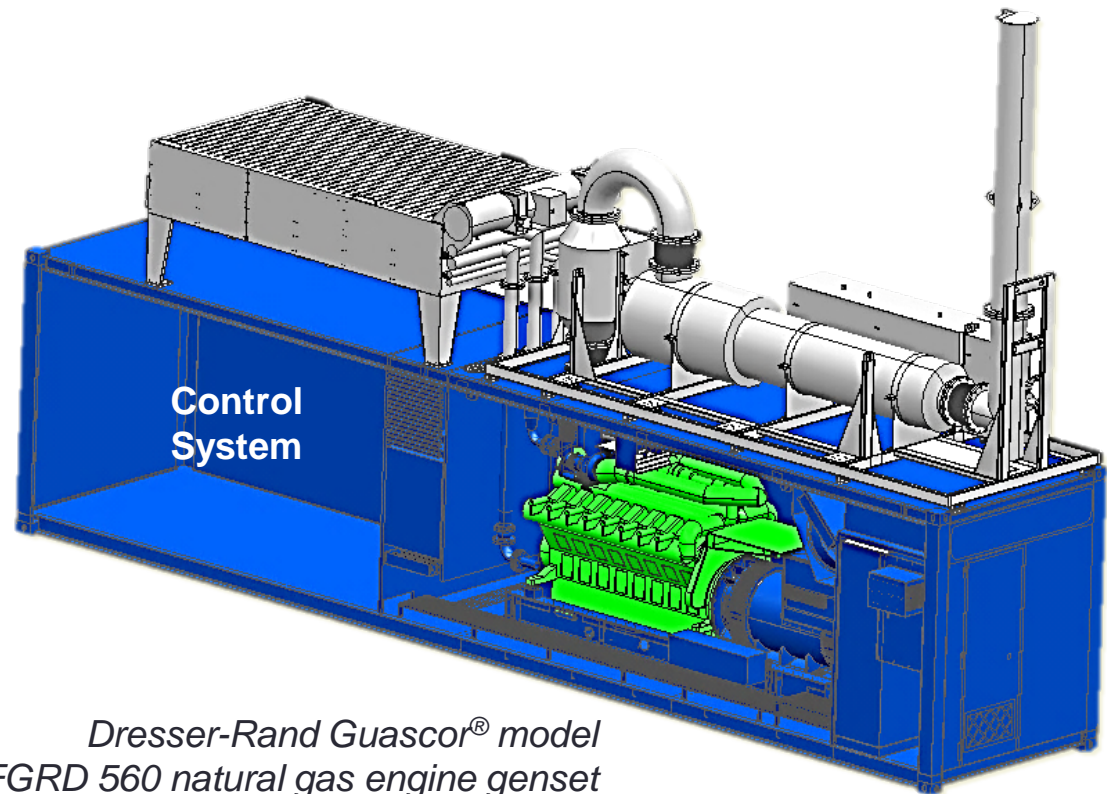
Power Module

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Power Module

Provides electrical power for the entire LNGo™ system

- Engine configured to handle natural gas within an LHV range of 800 to 1150 BTU/CF
- Fuel gas is a blended mixture of Mole Sieve purge (waste) gas and inlet NG
- Guascor: 16-cylinder, 4 cycle, turbocharged and after cooled rich-burn engine
- Dresser-Rand Enginuity® Control System



*Dresser-Rand Guascor® model
SFGRD 560 natural gas engine genset*

Power Module

- Rated emissions of 0.1/0.2/0.2 gm/bhp-hr for NOx/CO/NMHC
- Genset package is rated for 870 kW at 1800 RPM
- Fan-driven ambient air cooler to cool engine jacket and lube oil circuits
- Contains a PLC based LNGo™ control system
- Contains motor control center (MCC)



Conditioning Module



Conditioning Module

The conditioning module, also known as a molecular sieve, takes the incoming gas and cleans and separates it into two streams

- The product stream, now free of H_2O or CO_2 , is fed to the MOS[™] compressor to begin the liquefaction process
- The purge stream is essentially a waste stream that contains H_2O , CO_2 and heavier hydrocarbons that are not permissible for making LNG. The purge stream is blended with make-up natural gas and consumed to fuel the Guascor[®] engine, avoiding additional gas treatment or cleanup



Conditioning Module

- Flow meters to measure the gas flow from Purge and Product streams
- 75 HP electric motor driven vacuum compressor to pull the tail gas stream from the regenerating vessel
- Three pressure swing adsorption (PSA) vessels that contain the adsorbent media for the molecular sieve
- Depressurization and re-pressurization tanks to smooth out pressure fluctuation between cycles
- A series of pneumatic actuated control valves for directing gas flow from regenerating vessel to storage tank



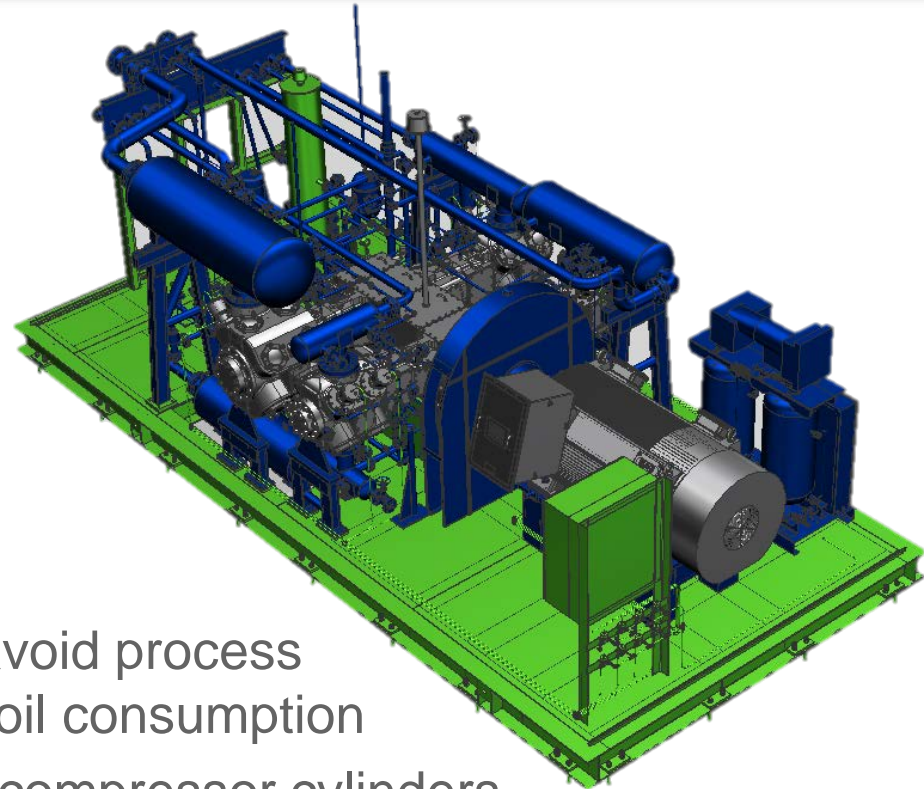
Compressor Module



Compressor Module

Satisfies all four stages of gas compression required by the LNGo™ liquefaction system

- Dresser-Rand Model 7MOS4 Reciprocating Compressor driven by VFD powered electric motor
- Uses non-lubricated cylinders to avoid process contamination and eliminate lube oil consumption
- Water-glycol coolant used to cool compressor cylinders and rod packings
- Crankshaft and rod bearings lube oil fed by a mechanically driven pump during normal operation and electric motor-pump during startup



Compressor Module

- Includes lube oil & water/glycol coolant console with electric motors/pumps to supply coolant pressure during startup and shut down
- Features Magnum® XF series valves for proven combination of efficiency and durability in high pressure ratio applications
- Induction drive motor rated at 550 HP at 480V, 60 Hz, 3 phase power
- Includes variable frequency drive with harmonic filter



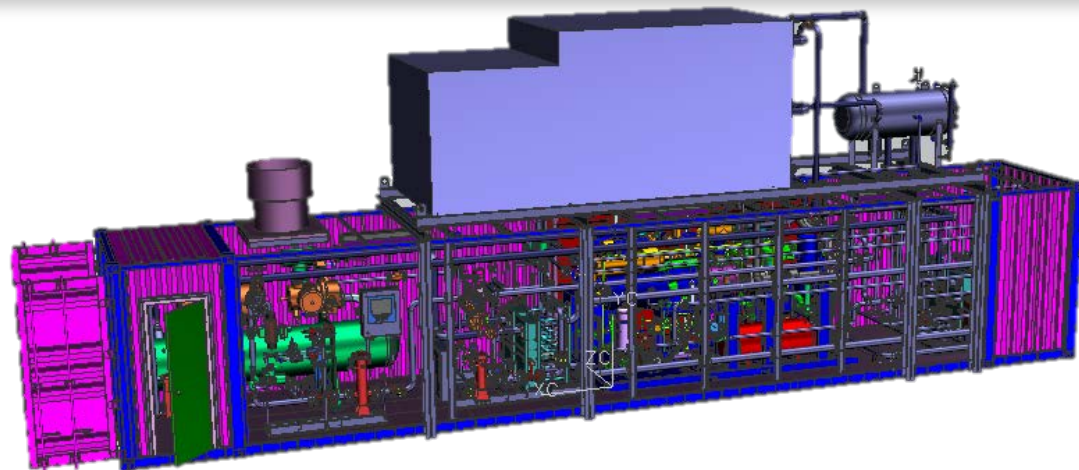


The image shows a complex industrial process module housed within a blue metal frame. The module consists of numerous black pipes, valves, and electrical components. Several large, black, rectangular components are visible, likely heat exchangers or storage tanks. The system is interconnected with a network of pipes and valves, some of which are labeled with yellow tags. A large, light blue electrical control cabinet is positioned on the right side of the module, featuring a 'DANGER' warning label and a blue label that reads 'I/O line 3'. The entire assembly is mounted on a black base. The background shows a warehouse-like setting with a corrugated metal roof and other industrial equipment.

Process Module

Process Module

Contains liquefaction process piping and heat exchangers required to drop the pressure and reduce the temperature of the natural gas



- Turbo-expander seal gas system delivers buffer natural gas to seal the bearing housing against process pressures and temperatures
- Anti-surge control system protects the turbo-expander against surge by recycling gas from the compressor discharge
- Stainless steel cryogenic heat exchangers fabricated from brazed steel plates
- Mechanical chiller uses ammonia refrigeration loop cooled by evaporative cooling

Process Module

- Mechanical Chiller (1st phase of cooling)
 - Supplies the process heat exchangers with ammonia chilling
 - Reduces temperature of ammonia through an evaporative cooler
- Turbo-Expander (2nd phase of cooling)
 - Reduces the temperature by expanding the natural gas
 - Supplies the cryogenic heat exchangers with gas refrigeration
 - Compressor and expander wheels connected by common shaft inside a horizontally split case
 - Expander wheel uses variable inlet guide vanes to control inlet gas flow and maximize efficiency
- Joules Thompson Valve (Final subcooling)
 - Rapidly expands natural gas and reduces temperature to below -250F
 - Used to supply final cryogenic heat exchanger with cooling medium



Values and Features

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LNGo™ Values and Features

- Value Proposition
 - Re-deployable
 - Premier, proven D-R engineered product technologies
 - Shortest cycle time (less than 6 months from order to operation)
 - Worldwide service and support
 - Inventory available NOW!
- LNGo Features
 - Skid-mounted design and small footprint
 - 6000 gpd—perfect size for local LNG production and demand
 - Multi-market applications
 - Self-powered (requiring no external utilities)
 - Easy to permit (no flaring required)



Controls, Monitoring and Safety Systems

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Controls, Monitoring and Safety Systems

- Contains PLC based control panel that controls and monitors entire system via HMI located in control room
- Equipped with condition monitoring system for remote access to performance data
- Combustible gas detection to monitor accumulation of vapors
- Low temperature detectors to detect LNG spill
- Fire detection by using smoke, high temperature, and UV/IR flame detectors
- Automatic alarm and shutdowns protect process safety under abnormal operating conditions



Codes/Standards

The following codes and standards may have application to the design and testing of the LNGo 6,000 gpd distributed LNG Production Plant

49 CFR Part 193 -2012–Liquefied Natural Gas Facilities
Federal Safety Standards

23 CFR 658, PERM30(NY)–Truck Size and weight, Route
Designations – Length, Width and Weight Limitations

NFPA 59A–Standard for the Production, Storage and Handling
of Liquefied Natural Gas (LNG), 2013 Edition

NFPA 30–Flammable and Combustible Liquids Code, 2012
Edition

NFPA 70–National Electric Code, 2013 Edition

NFPA 56(PS) –Standard Fire and Explosion Prevention During
Cleaning and Purging of Flammable Gas Piping Systems, 2012
Edition

ASME B31.3–Process Piping, 2012 Edition

ASME Sect VIII–Boiler and Pressure Vessel Codes, 2012
Edition

CGA S-1.3–Pressure Relief Device Standards, Part 3 –
Stationary Storage Containers for Compressed Gases, 2008 ,
8'th Edition

AGA–Purging Principles and Practice

ASTM A105/A105M–12 Standard Specification for Carbon
Steel Forgings for Piping Applications

ASTM A312 / A312M–12a Standard Specification for
Seamless, Welded, and Heavily Cold Worked Austenitic SS
Pipes

ASTM A182 / A182M–13 Standard Specification for Forged or
Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings,
and Valves and Parts for High-Temperature Svc.

API 520–Reciprocating Compressors for Petroleum, Chemical,
and Gas Industry Services, Eighth Edition, 2008.

API 526–Flanged Steel Pressure Relief Valves, Fifth Edition
2002

API 527–Seat Tightness of Pressure Relief Valves, Third
Edition, R(2002)

API 598–Valve Inspection and Testing. Ninth Edition, 2009.

API 614–Lubrication, Shaft Sealing, and Oil-control Systems
and Auxiliaries, 5'th Edition, 2008, as applicable.

API 617–Axial and Centrifugal Compressors and Expander-
compressors for Petroleum, Chemical and Gas Industry
Services, Seventh Edition, 2002.

API 618–Reciprocating Compressors for Petroleum, Chemical,
and Gas Industry Services, Fifth Edition, 2007. The separable
unit is not API 618, however, principles of 618 apply.

API 670–Machinery Protection Systems, Fourth Edition 2010.

API 688–Pulsations and Vibration Control in Positive
Displacement Machinery Systems for Petroleum,
Petrochemical, and Natural Gas Services, Guideline only First
Edition 2012.

Documentation Submittal (typical)

LNGo™ DOCUMENTATION SUBMITTAL LISTING:

- LNGo™ Site Plan
- General Arrangement: Compressor Module
- General Arrangement: Process Module
- General Arrangement: Power Module
- General Arrangement: Conditioning Module
- Lifting and Shipping Plan
- P&ID: LNGo™ Process
- Interconnecting Diagram
- Inspection and Test Plan
- Inspection Report/s

PRELIMINARY TECHNICAL MANUAL

LNGo™ Technical Manual includes P&IDs, Bills of Material, Assembly Drawings, Technical Data for:

- LNGo™ Auxiliary Systems
- Process Gas
- Reciprocating Compressor Oil
- Reciprocating Compressor Coolant
- Control Air
- Engine
- Molecular Sieve
- Chiller System
- Control Air
- Motor
- Oil/water Console

Thank You

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